

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/058584 A3

(51) International Patent Classification⁷: **B65D 33/14,**
F42B 3/087

(21) International Application Number:
PCT/US2003/040035

(22) International Filing Date:
16 December 2003 (16.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/434,085 16 December 2002 (16.12.2002) US
60/494,653 12 August 2003 (12.08.2003) US
60/494,659 12 August 2003 (12.08.2003) US

(71) Applicant (for all designated States except US): **VELCRO INDUSTRIES B.V.** [NL/NL]; Castorweg 22-24, Curacao (AN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KINGSFORD, Howard, A.** [US/US]; 4 Winterbury Drive, Amherst, NH 03031 (US). **ISABELLE, Holly** [US/US]; 47 Currier

Road, Deerfield, NH 03037 (US). **PROVOST, George, A.** [US/US]; 27 Brook Road, Litchfield, NH 03052 (US). **SHEPARD, William, H.** [US/US]; 7 Highland Drive, Amherst, NH 03031 (US).

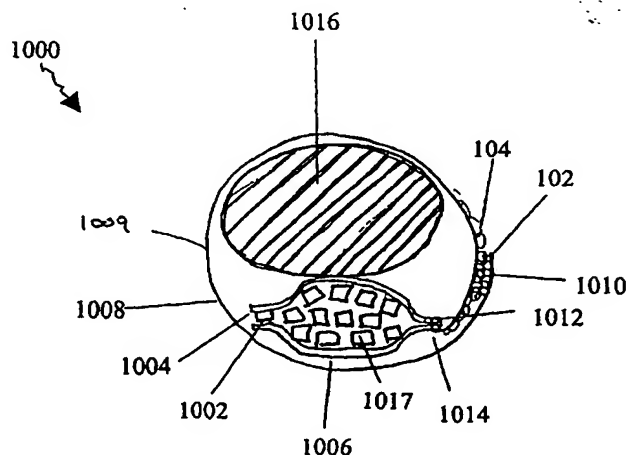
(74) Agent: **BABINEAU, James, W.**; Fish & Richardson P.C., 225 Franklin Street, Boston, MA 02110-2804 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ATTACHABLE BAGS



(57) Abstract: A wrap-bag (1000, 1100, 100, 101, 601, 708, 742, 877, 1200, 1300) includes a bag body (1006, 1310, 119, 119", 618, 724, 756, 876) defining therein a compartment (384) accessible through an opening (379, 616, 722) at one end of the bag body, and, secured to the bag body along one edge thereof and extending therefrom to a free distal end (1003), a flexible strap (1009, 1005, 109, 125, 609, 709, 706, 889, 1312) of width sufficient to span at least a majority of the compartment (384). The strap carries an array of fastener elements (102), each fastener element (102) having a stem extending integrally from a band of resin film extending across the strap and encapsulating surface features of the strap to form an inseparable laminate. The strap is of sufficient length to wrap about an object, with the strap overlapping the bag body to engage the exposed fibers of the bag with the fastener elements (102), to secure the wrap-bag to the object. The product is useful for holding components (1222) to a chassis (1220) prior to assembly, or for holding charges for detonation.

WO 2004/058584 A3